

350HP XJ Truck Mounted Workover Rig

General Description

- Hook load rating: 134,885 lbs, 67 US ton (600KN)
- Mast type: 95' (29m) two section telescoping type that is raised using hydraulic cylinders
- Standpipe: Single 3" ID rated to 3000psi
- Substructure type ZT90 with max capacity 202,000 lbs, 101 US ton (900KN) consisting of 6 x telescopic legs, box type, with rotary table base and setback base independent of each other
- Depth rating: 2 7/8" EUE TBG 13,124ft (4,000m), 2 7/8" Drill pipe 10,500ft (3,200m) 3 1/2" Drill pipe 8,200ft (2500m)
- Rig floor height: 8.20ft (2.35M)
- Rotary table type and size: ZP 175 - 17.5" (444mm) with maximum torque rating 10,250 ft/lbs
- Rotary beam capacity: 202,000 lbs, 99 US ton (900Kn)
- Draw works: JC18/11 350hp with 1" (26mm) drill line size, complete with band brake and hydromantic brake. equipped with sand line drum for 4000m of 5/8" cable
- Catheads: 2 ea Y15130, Mounted in mast section
- Winches: 1 x 3.3 ton hydraulic winches Model YJ3
- Crown saver: pneumatic Crown-o-matic system
- Swivel type SL110 with load rating of 247,289 lbs, 123 US ton (1100KN) and pressure rating of 3,000psi
- Operating temperature: -20°C to +55°C (cold weather or desert modifications on request)

Power Package Carrier

- 1 x Cat C-9, 350 hp @ 2100RPM, with water loss, low oil pressure, high water temperature and over speed protection - electrical-start

Main Transmission

- CAT TH31, six forward speeds, one reverse

Rig Electrical Power System

- 1 x generator Model: VOLVO 300KW, Voltage 130/400V, Frequency: 50HZ, Generator and MCC are housed in a single house. Lighting fixtures are rated for service in classified areas as per API RP 505 for rig system

Control System

- Drillers console is mounted on the side of the mast, and the rear of the carrier
- JE100 weight indicator
- All electric and pneumatic controls are installed into a purged stainless steel console.
- Driller's console panel is furnished with other interface devices such as instrumentation system, hydraulic weight indicator and stand pipe pressure gauges

Mud Pumps

- Mud Pumps: Qty 1 x F-500hp triplex pump c/w liner wash and charge pump, Suction strainer, dampener and pulsation dampener, reset relief valves with integrated bleed and relief valve line. Pump is powered by CAT C-15 540 HP engine and Allison 5610HR Torque Converter/Transmission

BOP and Control system

- 11" 3K Annular BOP, 11" 3K Double Ram (2 sets of rams provided), Drilling Spool, BOP Test Pump, (air powered) with hoses and chart recorder. BOP Test Base. BOP Stack Lifting device. Transport Skid. BOP

Control Unit. Choke and Kill Manifold 3-1/16" X 3K. 3-1/16" X 3K Manual valves. Non-return Valve on kill line. All high pressure fire proof hydraulic hoses, hand wheels etc.

Solid Control System

- BBL capacity: 552 BBL (88m³)
- Tanks: 2 tank system to include built in trip tank and brake cooling water tank
- Shakers: Qty 1 Ea, QZS703
- Vacuum Degasser: ZCQ 1/4 , treating capacity 200m³/h
- Mix hopper: Qty 1 DN150 x Jet Mixing hopper
- Agitators: 3 Ea. NJ7.5, 1 Ea NJ5.5
- Mud Guns: Qty 2- mud guns supplied
- Qty 1 EA De-silter CNQ100 X 8 cones and De-sander unit: LCS250 X 2 cones
- Centrifugal pumps: Qty 2- SB6"x8"x12 $\frac{1}{2}$ ", 75 hp (55KW) (mix pump)
- Centrifugal pumps: Qty 1- SB6"x8"x12 $\frac{1}{2}$ ", 75 hp (55KW) (charge pump)
- Centrifugal pumps: Qty 1- SB3"x4"x9" 15 hp (11KW) (trip pump)
- Centrifugal pumps: Qty 2- SB6"X8"-12 $\frac{1}{2}$ "(De-silter / De-sander pump)

Handling Tools and Equipment

- Elevators, Bails, Manual tongs, Pipe spinner, Casing power tong, Hydraulic unit, Kelly with drive bushings, rotary table bushings, pipe racks, TBG power tong XQ89/3C

Air System

- Air compressor is driven by the carrier engine; air receiver is mounted in the carrier chassis. All air hard and flexible air lines as well as control valves and quick connect fittings are supplied

Hydraulic System

- Max. System pressure 2030psi (14MPa)
- Tank capacity 5.5 bbls (.88m³)
- All hoses, hard line, fittings and valves to connect and control all hydraulic functions
- Hydraulic panel to allow operator to raise, telescope and latch mast

Auxiliary Tanks

- Water tank: 255 bbl (40 M³) including 2 x pumps
- Diesel Fuel tank: 185 bbl (30 M³) fuel tank and 32 bbl (5 M³) day tank, complete with pumps, filtration and distribution system.

Auxiliary Components

- Tools and Spares Warehouse with A/C unit
- Workshop, split for electrical and mechanical repairs with A/C unit

Rig Move

- Max. rated speed: 45 kph (28mph)
- Max climb gradient: 32%
- Gross weight of carrier 50T (110,000 lbs)
- Dimensions of mast / carrier: 18.5m X 2.85m X 4.3m
- Dimensions of loading ramp: Width 3.15m X Height .2m X Length 12.3m

Technical Drawings

- Carrier side and top view, substructure front, substructure side and top view and mast views

